

INCH-POUND

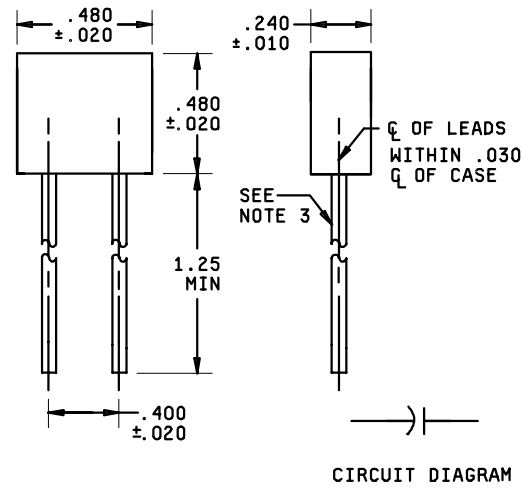
MIL-PRF-20/38B
21 June 2001
SUPERSEDING
MIL-PRF-20/38A
6 September 1977

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC
(TEMPERATURE COMPENSATING),
ESTABLISHED AND NON-ESTABLISHED RELIABILITY,
STYLES CCR08 AND CC08

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the capacitors described herein shall
consist of this specification and the latest issue of MIL-PRF-20.



| Inches | mm |
|--------|-------|
| .001 | .03 |
| .004 | .10 |
| .010 | .25 |
| .020 | .51 |
| .025 | .64 |
| .030 | .76 |
| .240 | 6.10 |
| .400 | 10.16 |
| .480 | 12.19 |
| 1.250 | 31.75 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Lead diameter shall be .025 +.004, -.001 (0.64 +0.10, -0.03 mm).

FIGURE 1. Styles CCR07 and CC07 capacitors.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Lead type: Radial.

Case type: Molded.

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DC rated voltage: See table I.

Operating temperature range: -55°C to +125°C.

Characteristic: CG.

Failure rate level (CCR08 only): M (1.0 percent), P (0.1 percent), R (.01 percent) or S (.001 percent).

Thermal shock and voltage conditioning (CCR08 only): In accordance with MIL-PRF-20.

Capacitance: Within tolerance specified (see table I).

Dissipation factor: In accordance with MIL-PRF-20.

Dielectric withstanding voltage: In accordance with MIL-PRF-20.

Body insulation: Test II.

TABLE I. Capacitor characteristics.

| Type designation 1/ | Rated voltage (volts, dc) | Nominal capacitance (pF) | Capacitance tolerance | Type designation 1/ | Rated voltage (volts, dc) | Nominal capacitance (pF) | Capacitance tolerance |
|------------------------|---------------------------------|--------------------------------|--------------------------|------------------------|---------------------------------|--------------------------------|--------------------------|
| CC-08CG392-- | 200 | 3,900 | GJK | CC-08CG183-- | 100 | 18,000 | GJK |
| CC-08CG472-- | 200 | 4,700 | GJK | CC-08CG563-- | 50 | 56,000 | GJK |
| CC-08CG153-- | 100 | 15,000 | GJK | CC-08CG683-- | 50 | 68,000 | GJK |

1/ Complete type designation will include the following:

1st dash - Symbol "R" (for style CCR08) or dash will be deleted (for style CC08).

2nd dash - Applicable capacitance tolerance symbol.

3rd dash - Applicable failure rate level symbol (CCR08 only) or dash will be deleted (for style CC08).

Solderability: In accordance with MIL-PRF-20.

Resistance to soldering heat: In accordance with MIL-PRF-20.

Life: In accordance with MIL-PRF-20, operating condition 2.

Marking: In accordance with MIL-PRF-20, method I.

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5910-2116-09)

Review activities:

Navy - AS, MC, OS, SH
Air Force - 99